IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Liming Tsau

Appl. No.: To Be Assigned

Filed: January 5, 2004

For: High Density Metal Capacitor

Using Via Etch Stopping Layer as

Field Dielectric in Dual-

Damascence Interconnect Process

Confirmation No.: To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.0230001

Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicant has listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicant has checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this
 Information Disclosure Statement was cited in a communication from a foreign
 patent office in a counterpart application and this communication was not
 received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty
 days prior to the filing of this information disclosure statement.
- 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final

Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application. a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1). b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2). c. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$ in payment of the fee under 37 C.F.R. § 1.17(p). 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

- a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- 6. A concise explanation of the relevance of the non-English language document(s) appears below:
- 7. Copies of the documents are submitted herewith.

January 4, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO 1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jason D. Eisenberg

Attorney for Applicant Registration No. 43,447

Date: <u>January 5, 2004</u>

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•					ATTY. DOCKET NO. 1875.0230001 APPLICATION NO. To Be Assigned				
FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT					FIRST NAMED INVENTOR				
					Liming Tsau FILING DATE ART UNIT				
					January 5, 2004		2823		
				U.S. P.	ATENT DOCUMENTS				
EXAMINER			UMENT	DATE	NAME	CLASS	SUB-CLASS	EILING DATE	
INITIAL	AA1	NUM	1,021	06/2000	Gambino et al.	CLASS	SUB-CLASS	FILING DATE	
	AB1	6,297,162		10/2001	Jang et al.	438	706		
	AC1	6,225,207		05/2001	Parikh	438	622		
	AD1	5,162,258		11/10/92	Lemnios et al.	437	184	3/20/90	
	AE1	5,792,704		8/11/98	Jun <i>et al.</i>	438	624	1/4/96	
	AF1	5,972,192		10/26/991	Dubin et al.	205	101	7/23/97	
	AG1		0,015	11/23/99	Lin et al.	438	706	3/12/98	
	AH1	6,048,762		04/11/00	Hsia et al.	438	238	4/6/98	
	Al1								
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	AK1								
				FOREIGN	PATENT DOCUMEN	ITS	· · · · · · · · · · · · · · · · · · ·		
EXAMINER INITIAL		DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
		NUN	IBER	DATE	COUNTRY	CLASS	SUB-CLASS	Yes	
	AL1	wo	00/46844	08/2000	PCT	H01L	21/02	No	
	0.044		1.072.101.11	04/2004	Furono	H01L	21/02	Yes No	
	AM1 EP 10		1 073 101 A1	01/2001	Europe	HUIL	21/02	Yes	
	AN1							No	
								Yes	
	AO1	_						No Yes	
	AP1							No	
		· · · · · · · · · · · · · · · · · · ·	OTHER (In	ncluding Aut	hor, Title, Date, Pertir	nent Pages, e	etc.)		
	AR 1 European Search Report for Appln No. EP 02 52 0004, September 26, 2003 (date of completion of search) 3 page							of search) 3 pages	
	AS	AS 2 Smith, "Application-Specific Integrated Circuits," 8 th Edition, May, 2000, Chapter 4, Programmable <i>ASICS</i> , 4.1 The Antifuse, pages 170-174.							
	АТ	1			cs, "Deep Submicron - Ad oldeep rfic.htm, 6/27/2002		ntegration," <i>IME</i> St	rategic Focuses,	
EXAMINER	1	<u> </u>	<u> </u>			DA	DATE CONSIDERED		
EXAMINER: In	itial if refer	ence co	onsidered, wheth	ner or not citation	is in conformance with MPE	I EP 609. Draw line	e through citation if n	ot in conformance	
and not conside	ered. Inclu	de copy	of this form wit	h next communic	cation to Applicant.				